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PTO/SB/21 (07-06)

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| TRANSMITTAL FORM (to be used for all correspondence after initial filing) | Application Number | 10/582457 |
| | Filing Date | JUNE 12, 2006 |
| | First Named Inventor | STANLEY E. CHARM |
| | Art Unit | |
| | Examiner Name | |
| Total Number of Pages in This Submission | Attorney Docket Number | 0656-027US3 |

| ENCLOSURES (Check all that apply) | | |
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| <input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement 4 pages <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): POSTCARD FOREIGN CITE NO: 1-4 NON PATENT LIT NO: 1-2 Express Mail Cert (1 page) |
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| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | | | |
|--|----------------------|----------|--------|
| Firm Name | CHARM SCIENCES, INC. | | |
| Signature | | | |
| Printed name | RICHARD J. LONG | | |
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Information Disclosure Statement
0656-027US3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Stanley E. Charm et al
Docket No. 0656-027US3
Title: Method, Device and System for Thermal Processing

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Date of Deposit: September 12, 2006

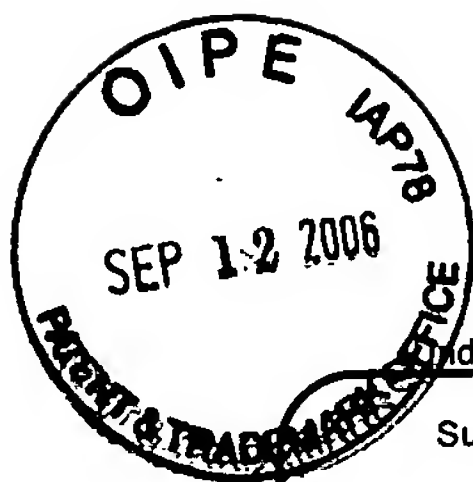
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Information Disclosure Statement, Form PTO/SB/08B- (1 page)
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**INFORMATION DISCLOSURE
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Sheet

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of

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|------------------------|------------------|
| Application Number | 10/582,457 |
| Filing Date | JUNE 12, 2006 |
| First Named Inventor | STANLEY E. CHARM |
| Art Unit | |
| Examiner Name | |
| Attorney Docket Number | 0656-027US3 |

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| | 1 | US- 6,917,022-B2 | 07-12-2005 | Forschungszentrum Karlsruhe GmbH | |
| | 2 | US- 6,787,175-B2 | 09-07-2004 | Good Karma Food Technologies, Inc. | |
| | 3 | US- 6,740,858-B2 | 05-25-2004 | Communications & Power Ind., Inc. | |
| | 4 | US- 6,638,475-B1 | 10-28-2003 | The Regents of the Univ of CA | |
| | 5 | US- 6,627,426-B2 | 09-30-2003 | Invitrogen Corporation | |
| | 6 | US- 6,587,732-B1 | 07-01-2003 | Kenneth L. Carr | |
| | 7 | US- 6,579,706-B2 | 06-17-2003 | IB2, LLC | |
| | 8 | US- 6,410,284-B1 | 06-25-2002 | I. Belloch Corp. | |
| | 9 | US- 6,406,727-B1 | 06-18-2002 | NC State Univ./Michael Foods Inc. | |
| | 10 | US- 6,344,229-B2 | 02-05-2002 | Forschungszentrum Karlsruhe GmbH | |
| | 11 | US- 6,277,610-B1 | 08-21-2001 | IB2, LLC | |
| | 12 | US- 6,268,200-B1 | 07-31-2001 | Lambda Tech, Inc/Baxter Int., Inc. | |
| | 13 | US- 6,259,077-B1 | 07-10-2001 | Industrial Microwave Systems, Inc. | |
| | 14 | US- 6,265,702-B1 | 07-24-2001 | Industrial Microwave Systems, Inc. | |
| | 15 | US- 6,246,037-B1 | 06-12-2001 | Industrial Microwave Systems, Inc. | |
| | 16 | US- 6,121,594 | 09-19-2000 | Industrial Microwave Systems, Inc. | |
| | 17 | US- 6,087,642 | 07-11-2000 | Industrial Microwave Systems, Inc. | |
| | 18 | US- 6,075,232 | 06-13-2000 | Industrial Microwave Systems, Inc. | |
| | 19 | US- 5,976,592 | 11-02-1999 | Officine Di Cartigliano, S.p.A. | |

FOREIGN PATENT DOCUMENTS

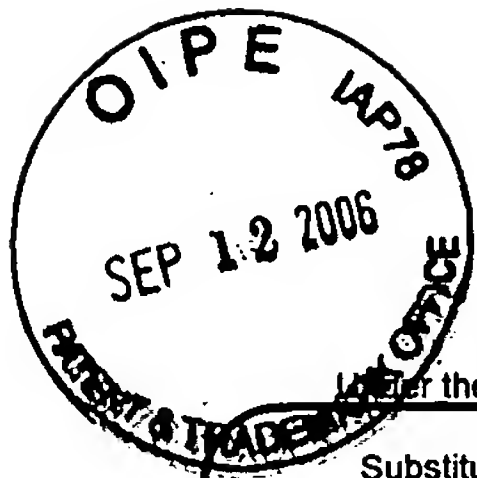
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|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | | | | |
| | 1 | WO-96/11591 | 04-25-1996 | Sieffollah Nikdel et al | | |
| | 2 | WO-95/00179 | 01-05-1995 | Charm Sciences, Inc. | | |
| | 3 | EP-0,497,099-B1 | 10-11-1995 | Officine Di Cartigliano | | |
| | 4 | GB-2,193,624-A | 02-17-1988 | APV International Limited | | |
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Sheet 2 of 3

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| Application Number | 10/582,457 |
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| Examiner Name | |
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|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| | 20 | US- 5,998,774 | 12-07-1999 | Industrial Microwave Systems, Inc. | |
| | 21 | US- 5,962,288 | 10-05-1999 | Belloch Corp. | |
| | 22 | US- 5,962,054 | 10-05-1999 | Secretary of Agric, USA | |
| | 23 | US- 5,958,275 | 09-28-1999 | Industrial Microwave Systems, Inc. | |
| | 24 | US- 5,914,255 | 06-22-1999 | Joel B. Grae | |
| | 25 | US- 5,884,417 | 03-23-1999 | Min. of Environment, Canada | |
| | 26 | US- 5,846,583 | 12-08-1998 | Welch's Foods, Inc. | |
| | 27 | US- 5,840,851 | 11-24-1998 | Plomer et al. | |
| | 28 | US- 5,708,259 | 01-13-1998 | Industrial Tech Rsch. Inst., Taiwan | |
| | 29 | US- 5,697,291 | 12-16-1997 | Questron Inc/FL Dept of Citrus | |
| | 30 | US- 5,672,316 | 09-30-1997 | Gunter Knapp | |
| | 31 | US- 5,667,828 | 09-16-1997 | Florida Dept. of Citrus | |
| | 32 | US- 5,665,869 | 09-09-1997 | Somatogen, Inc. | |
| | 33 | US- 5,612,076 | 03-18-1997 | NC State Univ/Michael Foods, Inc. | |
| | 34 | US- 5,514,389 | 05-07-1996 | Florida Dept. of Citrus | |
| | 35 | US- 5,503,064 | 04-02-1996 | Custom Control Products, Inc. | |
| | 36 | US- 5,498,396 | 03-12-1996 | Abbott Laboratories | |
| | 37 | US- 5,389,335 | 02-14-1995 | Charm Sciences, Inc. | |
| | 38 | US- 5,348,235 | 09-20-1994 | Charles A. Pappas | |

FOREIGN PATENT DOCUMENTS

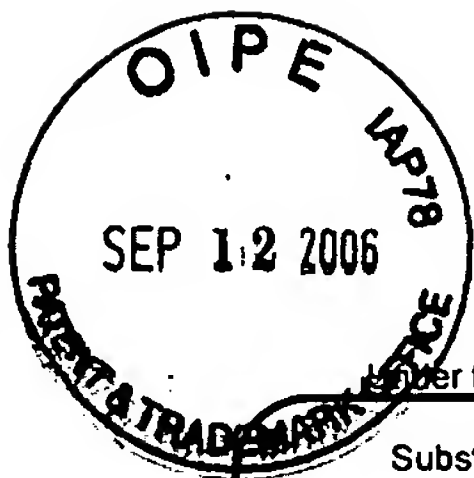
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Sheet 3 of 3

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|-----------------------|--------------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| | 39 | US- 5,288,471 | 02-22-1994 | Officine de Cartigliano, S.p.A. | |
| | 40 | US- 5,180,896 | 01-19-1993 | University of Florida | |
| | 41 | US- 5,108,701 | 04-28-1992 | CEM Corporation | |
| | 42 | US- 5,073,167 | 12-17-1991 | M/A-Com, Inc. | |
| | 43 | US- 4,975,246 | 12-04-1990 | Charm Sciences, Inc. | |
| | 44 | US- 4,839,142 | 06-13-1989 | Charm Sciences, Inc. | |
| | 45 | US- 4,694,133 | 09-15-1987 | Nestec, S.A. | |
| | 46 | US- 4,358,652 | 11-09-1982 | Darrell R. Kaarup | |
| | 47 | US- Re. 30,780 | 10-20-1981 | Lennart A. Stentstrom | Reissue of Patent No.3,814,889 |
| | 48 | US- 3,092,503 | 06-04-1963 | Oscar S. Gray | |
| | 49 | US- 2,833,657 | 05-06-1958 | Raytheon Manufacturing Co. | |
| | 50 | US- 2,585,970 | 02-19-1952 | Secretary of Agriculture, USA | |
| | 51 | US- 2,517,569 | 08-08-1950 | Erich Gustav Huzenlauab | |
| | 52 | US- 5,429,799 | 07-04-1995 | Industrial Tech. Res. Inst. Taiwan | |
| | 53 | US- 5,403,564 | 04-04-1995 | Helmut Katschnig | |
| | | US- | | | |
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| | | US- | | | |

FOREIGN PATENT DOCUMENTS

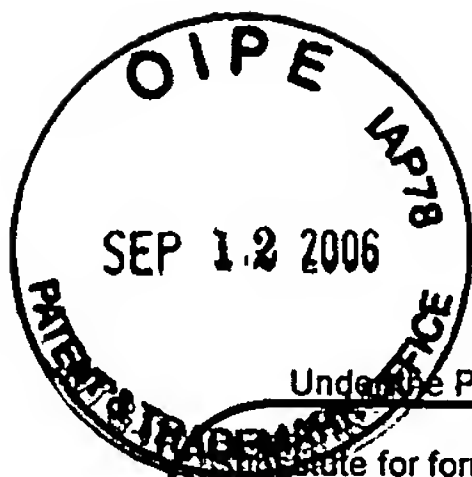
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| | | | | Art Unit | |
| | | | | Examiner Name | |
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| NON PATENT LITERATURE DOCUMENTS | | | |
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| | 1 | Charm, Stanley E., Steven Landau, Bolanle Williams, Bernard Horowitz, Alfred M. Prince, and Donna Pascual, High Temperature Short-Time | |
| | | Heat Inactivation of HIV and Other Viruses in Human Blood Plasma, Vox Sanguinis, 1992, 62: 12-20, Karger AG, Basel, Switzerland | |
| | | | |
| | 2 | Copy of PCT International Search Report and Written Opinion Date of Mailing: May 19, 2005-Intl Application No: PCT/US04/41278 | |
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